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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/552,241	09/07/2006	Olivier Lavastre	F-870 (31223.00097)	8812
	25264 FINA TECHNO	7590 . 04/06/200° OLOGY INC	7	· EXAMINER	
PO BOX 674412 HOUSTON, TX 77267-4412		-		LU, C CAIXIA	
		X //20/-4412		ART UNIT	PAPER NUMBER
				1713	
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l	SHORTENED STATUTOR	Y PERIOD OF RESPONSE .	MAIL DATE	DELIVERY MODE PAPER	
	3 MO	NTHS	04/06/2007		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
		10/552,241	LAVASTRE ET AL.				
Office Action Summary		Examiner	Art Unit				
		Caixia Lu	1713				
The MAILING DATE of th Period for Reply	is communication app	ears on the cover sheet with the	correspondence addre	ess			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communic	ation(s) filed on	_•					
2a) This action is FINAL.	2b)⊠ This	action is non-final.					
3) Since this application is in	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims				•			
4) ☐ Claim(s) 11-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 11-16 is/are allowed. 6) ☐ Claim(s) 17-21 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Application Papers	,						
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on <u>07 October 2005</u> is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) D Notice of References Cited (PTO-892)		4) 🔲 Interview Summary					
Notice of Draftsperson's Patent Drawi Information Disclosure Statement(s) (Paper No(s)/Mail Date		Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 17-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Liu et al. (New J. Chem. 2002, 26, 1485-1489).

The instant claims are directed to an ethylene polymerization process in the presence of ion-based tridentate complex covalently bonded to a polystyrene support.

Liu teach the preparation of ion-based tridentate complex covalently bonded to a polystyrene support by preparing a <u>vinyl group containing</u> ion-based tridentate complex first, then polymerizing the ion-based tridentate complex with styrene through radical polymerization to provide polystyrene supported ion-based tridentate complex catalyst particles; the ethylene is then polymerized in the presence of the catalyst particles and methyl aluminoxane (page 1487, left col.). Liu's teaching anticipates the instant claims.

Allowable Subject Matter

3. Claims 11-16 are allowed.

Liu's catalyst preparation process is different from those of the instant claims. In the instantly claimed process, the functional group containing polystyrene particles are prepared first, the ion-based tridentate complex is then covalently bonded to the Application/Control Number: 10/552,241 Page 3

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polystyrene support, while in Liu's process, the ion-based tridentate complex is copolymerized with styrene monomer to provide the polystyrene supported catalyst.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caixia Lu whose telephone number is (571) 272-1106. The examiner can normally be reached from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful and the matter is urgent, the examiner's supervisor, David Wu, can be reached at (571) 272-1114. The fax numbers for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1700.

Caixia Lu, Ph. D. Primary Examiner